

13



1642

RAW SEQUENCE LISTING

DATE: 07/10/2002

PATENT APPLICATION: US/09/597,920B

TIME: 15:47:09

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3 <110> APPLICANT: Samelson, Lawrence E.
4     Zhang, Weiguo
6 <120> TITLE OF INVENTION: The Protein Tyrosine Kinase Substrate LAT and Its Use in the
7     Identification of (ANT)Agonists of the Kinase
9 <130> FILE REFERENCE: NIH-05065
11 <140> CURRENT APPLICATION NUMBER: 09/597,920B
12 <141> CURRENT FILING DATE: 2000-06-19
14 <150> PRIOR APPLICATION NUMBER: PCT/US98/27400
15 <151> PRIOR FILING DATE: 1998-12-23
17 <160> NUMBER OF SEQ ID NOS: 19
19 <170> SOFTWARE: PatentIn version 3.1
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22 <211> LENGTH: 1060
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31 ttgatggcac tgtgtgtgca ctgccacaga ctgccaggct cctacgacag cacatcctca      180
33 gatagtttgt atccaagggg catccagttc aaacggcctc acacggttgc cccctggcca      240
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37 ccaagatccc cgcagccccc tgggggctcc caccggacgc catcttcccg gcgggattct      360
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57 cttattatca ctttgggggt cgccctgtgt ccccccgaac ctctgcacct tctgacgcag      960
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84 gcgtctggga tccgagggtgc ccaggctggg tggggagtct ggggtccgtc ctggactagg 480
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182 20 25 30
185 Pro Gly Ser Tyr Asp Ser Thr Ser Asp Ser Leu Tyr Pro Arg Gly
186 35 40 45
189 Ile Gln Phe Lys Arg Pro His Thr Val Ala Pro Trp Pro Pro Ala Tyr
190 50 55 60
193 Pro Pro Val Thr Ser Tyr Pro Pro Leu Ser Gln Pro Asp Leu Leu Pro
194 65 70 75 80
197 Ile Pro Arg Ser Pro Gln Pro Leu Gly Gly Ser His Arg Thr Pro Ser
198 85 90 95
201 Ser Arg Arg Asp Ser Asp Gly Ala Asn Ser Val Ala Ser Tyr Glu Asn
202 100 105 110
205 Glu Glu Pro Ala Cys Glu Asp Ala Asp Glu Asp Glu Asp Asp Tyr His
206 115 120 125
209 Asn Pro Gly Tyr Leu Val Val Leu Pro Asp Ser Thr Pro Ala Thr Ser
210 130 135 140
213 Thr Ala Ala Pro Ser Ala Pro Ala Leu Ser Thr Pro Gly Ile Arg Asp
214 145 150 155 160
217 Ser Ala Phe Ser Met Glu Ser Ile Asp Asp Tyr Val Asn Val Pro Glu
218 165 170 175
221 Ser Gly Glu Ser Ala Glu Ala Ser Leu Asp Gly Ser Arg Glu Tyr Val
222 180 185 190
225 Asn Val Ser Gln Glu Leu His Pro Gly Ala Ala Lys Thr Glu Pro Ala
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249 20 25 30
252 Leu Pro Val Ser Tyr Asp Ser Thr Ser Thr Glu Ser Leu Tyr Pro Arg
253 35 40 45
256 Ser Ile Leu Ile Lys Pro Pro Gln Ile Thr Val Pro Arg Thr Pro Ala
257 50 55 60
260 Val Ser Tyr Pro Leu Val Thr Ser Phe Pro Pro Leu Arg Gln Pro Asp
261 65 70 75 80
264 Leu Leu Pro Ile Pro Arg Ser Pro Gln Pro Leu Gly Gly Ser His Arg

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273          115          120          125
276 Glu Asp Asp Tyr Pro Asn Gly Tyr Leu Val Val Leu Pro Asp Ser Ser
277          130          135          140
280 Pro Ala Ala Val Pro Val Val Ser Ser Ala Pro Val Pro Ser Asn Pro
281 145          150          155          160
284 Asp Leu Gly Asp Ser Ala Phe Ser Val Glu Ser Cys Glu Asp Tyr Val
285          165          170          175
288 Asn Val Pro Glu Ser Glu Glu Ser Ala Glu Ala Ser Leu Asp Gly Ser
289          180          185          190
292 Arg Glu Tyr Val Asn Val Ser Pro Glu Gln Gln Pro Val Thr Arg Ala
293          195          200          205
296 Glu Leu Ala Ser Val Asn Ser Gln Glu Val Glu Asp Glu Gly Glu Glu
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330 ccgacgggct gccctgcaac ctgcgcaagc cgtgcaaccg gccgtcgggc ctcgagccgc      540
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358 tgaagcaggg cacggagaag gcagacacgg aagagatgat gcgcgaggcg cagatcatgc      1380
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366 acctggagga gaagaacttt gtgcaccgtg acctggcggc ccgcaacgtc ctgctggtta 1620
368 accggcacta cgccaagatc agcgactttg gcctctccaa agcactgggt gccgacgaca 1680
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413 35 40 45
416 Ser Leu Val Asp Asp Val Arg Phe His His Phe Pro Ile Glu Arg Gln
417 50 55 60
420 Leu Asn Gly Thr Tyr Ala Ile Ala Gly Gly Lys Ala His Cys Gly Pro
421 65 70 75 80
424 Ala Glu Leu Cys Gln Phe Tyr Ser Gln Asp Pro Asp Gly Leu Pro Cys
425 85 90 95
428 Asn Leu Arg Asn Ala Cys Asn Arg Pro Pro Gly Leu Glu Pro Gln Pro
429 100 105 110
432 Gly Val Phe Asp Cys Leu Arg Asp Ala Met Val Arg Asp Tyr Val Arg
433 115 120 125
436 Gln Thr Trp Lys Leu Glu Gly Asp Ala Leu Glu Gln Ala Ile Ile Ser
437 130 135 140
440 Gln Ala Pro Gln Val Glu Lys Leu Ile Ala Thr Thr Ala His Glu Arg
441 145 150 155 160
444 Met Pro Trp Tyr His Ser Ser Leu Thr Arg Glu Glu Ala Glu Arg Lys
445 165 170 175
448 Leu Tyr Ser Gly Gln Gln Thr Asp Gly Lys Phe Leu Leu Arg Pro Arg
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452 Lys Glu Gln Gly Thr Tyr Ala Leu Ser Leu Val Tyr Gly Lys Thr Val
453 195 200 205
456 Tyr His Tyr Leu Ile Ser Gln Asp Lys Ala Gly Lys Tyr Cys Ile Pro

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